

SEARCH 09/182626

(FILE 'USPAT' ENTERED AT 07:24:54 ON 06 AUG 1999)

L1 66717 S KEYPAD OR KEYBOARD
L2 173670 S LIGHT SOURCE OR ILLUMINAT?
L3 11419 S L1 AND L2
L4 775 S 341/22/CCLST
L5 227 S 341/23/CCLST
L6 944 S L4 OR L5
L7 156 S L2 AND L6
L8 2329 S PERSONAL DIGITAL ASSISTANT OR PDA
L9 2 S L7 AND L8
L10 222 S KEYPAD (4A) DETECT?
L11 4 S L7 AND L10
L12 136355 S LED OR LIGHT-EMITTING-DIODE
L13 80 S L7 AND L12
L14 58727 S ANALOG-TO-DIGITAL CONVERTER OR "A/D CONVERTER"
L15 7 S L13 AND L14
L16 7345 S KEYPAD AND CIRCUIT?
L17 22 S L7 AND L16
L18 91 S 345/170/CCLST
L19 20 S 345/171/CCLST
L20 95 S 345/172/CCLST
L21 202 S L18 OR L19 OR L20
L22 4782 S BACKLIGHT? OR BACKLIT? OR BACK LIT?
L23 343 S KEYPAD AND L22
L24 79363 S PIN CONTACT? OR ELECTRICAL CONTACT?
L25 32 S L23 AND L24

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US PAT NO: 5,872,527 [IMAGE AVAILABLE] L15: 1 of 7
 TITLE: Medical keyboard apparatus provided with data inputting
 mechanical switches and function executing flat switches
 US-CL-CURRENT: 341/22, 34

US PAT NO: 5,785,439 [IMAGE AVAILABLE] L15: 2 of 7
 TITLE: Environmentally safe machine control security switch
 US-CL-CURRENT: 400/472; 340/825.31; 341/22; 345/168

US PAT NO: 5,777,603 [IMAGE AVAILABLE] L15: 3 of 7
 TITLE: Flat panel display with optical signal transparent zone
 US-CL-CURRENT: 345/172; 341/23; 345/184

US PAT NO: 5,577,848 [IMAGE AVAILABLE] L15: 4 of 7
 TITLE: Light controlled touch pad for cursor and selection
 control on a computer display
 US-CL-CURRENT: 400/472; 341/22; 345/157, 173

US PAT NO: 5,426,450 [IMAGE AVAILABLE] L15: 5 of 7
 TITLE: Hands-free hardware keyboard
 US-CL-CURRENT: 345/168; 341/22; 345/158, 170

US PAT NO: 5,181,024 [IMAGE AVAILABLE] L15: 6 of 7
 TITLE: Book type wireless remote control apparatus
 US-CL-CURRENT: 340/825.69, 825.72; 341/22, 23; 348/734; 359/142

US PAT NO: 4,853,888 [IMAGE AVAILABLE] L15: 7 of 7
 TITLE: Programmable multifunction keyboard
 US-CL-CURRENT: 345/172; 341/23; 345/82; 364/921.8, 925, 925.1, 926.9,
 927.2, 927.3, 927.4, 927.5, 927.7, 928, 928.2, 928.3,
 928.4, 928.5, 943.9, 944.61, 949, 949.4, 957, 957.1,
 965, 965.5, 965.78, 974, DIG.2

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 L14 58727 S ANALOG-TO-DIGITAL CONVERTER OR "A/D CONVERTER"
 L15 7 S L13 AND L14

=> display ti,ccls l11 1-4

US PAT NO: 5,729,222 [IMAGE AVAILABLE] L11: 1 of 4
 TITLE: User-configurable control device
 US-CL-CURRENT: 341/31; 250/221; 341/22

US PAT NO: 5,721,542 [IMAGE AVAILABLE] L11: 2 of 4
 TITLE: Data entry keypad assembly
 US-CL-CURRENT: 341/23; 340/525, 815.69

US PAT NO: 5,579,002 [IMAGE AVAILABLE] L11: 3 of 4
 TITLE: User-configurable control device
 US-CL-CURRENT: 341/23; 200/5A; 341/22; 348/734

US PAT NO: 5,153,590 [IMAGE AVAILABLE] L11: 4 of 4
 TITLE: Keypad apparatus

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US PAT NO: 5,932,989 [IMAGE AVAILABLE] L25: 1 of 32
 TITLE: Method for an electronic device to detect the presence of
 a battery charger
 US-CL-CURRENT: 320/106, DIG.12

US PAT NO: 5,914,481 [IMAGE AVAILABLE] L25: 2 of 32
 TITLE: Portable data collection terminal with handwritten input
 area
 US-CL-CURRENT: 235/472.01

US PAT NO: 5,892,971 [IMAGE AVAILABLE] L25: 3 of 32
 TITLE: Portable data processing device having an indicia reader
 and a multi-tasking operating system capable of
 executing battery monitoring instructions while
 concurrently executing application programs
 US-CL-CURRENT: 710/7, 20

US PAT NO: 5,870,724 [IMAGE AVAILABLE] L25: 4 of 32
 TITLE: Targeting advertising in a home retail banking delivery
 service
 US-CL-CURRENT: 705/42; 235/379, 380; 705/14, 43

US PAT NO: 5,847,336 [IMAGE AVAILABLE] L25: 5 of 32
 TITLE: Direct **keypad backlighting**
 US-CL-CURRENT: 200/5A, 314

US PAT NO: 5,844,166 [IMAGE AVAILABLE] L25: 6 of 32
 TITLE: Lattice RF shield
 US-CL-CURRENT: 174/35R; 200/305; 361/816; 455/300

US PAT NO: 5,834,753 L25: 7 of 32
 TITLE: Laser scanner module having integral interface with
 hand-held data capture terminal proximity and label
 sensing, and enhanced sensitivity and power efficiency

US PAT NO: 5,826,708 [IMAGE AVAILABLE] L25: 8 of 32
 TITLE: **Backlighted** dome switch assembly
 US-CL-CURRENT: 200/314, 313

US PAT NO: 5,811,930 [IMAGE AVAILABLE] L25: 9 of 32
 TITLE: Electroluminescent lamp devices and their manufacture
 US-CL-CURRENT: 313/510; 40/544; 313/506, 511, 512

US PAT NO: 5,747,786 [IMAGE AVAILABLE] L25: 10 of 32
 TITLE: Communication module for a data capture system
 US-CL-CURRENT: 235/462.46, 472.02

US PAT NO: 5,741,990 [IMAGE AVAILABLE] L25: 11 of 32
 TITLE: Method of and means for producing musical note
 relationships
 US-CL-CURRENT: 84/423R, 424, 425

US PAT NO: 5,714,932 [IMAGE AVAILABLE] L25: 12 of 32
 TITLE: Radio frequency security system with direction and
 distance locator
 US-CL-CURRENT: 340/539, 571, 572.4, 573.4, 825.06; 342/417; 455/67.1

US PAT NO: 5,708,808 [IMAGE AVAILABLE] L25: 13 of 32
TITLE: Method and apparatus for providing **backlighting** for
keypads and LCD panels
US-CL-CURRENT: 341/22; 200/314; 340/815.45, 825.82; 379/368

US PAT NO: 5,680,191 [IMAGE AVAILABLE] L25: 14 of 32
TITLE: Driver tabs liquid crystal display having multi-contact
US-CL-CURRENT: 349/150, 152

US PAT NO: 5,661,633 [IMAGE AVAILABLE] L25: 15 of 32
TITLE: Keyboard and screen peripheral device for a computer and a
desk pad
US-CL-CURRENT: 361/683; 400/692

US PAT NO: 5,602,456 [IMAGE AVAILABLE] L25: 16 of 32
TITLE: Hand held computerized data collection terminal with
rechargeable battery pack sensor and battery power
conservation
US-CL-CURRENT: 320/112, DIG.12; 429/7

US PAT NO: 5,565,733 [IMAGE AVAILABLE] L25: 17 of 32
TITLE: Electroluminescent modular lamp unit
US-CL-CURRENT: 313/510; 40/544; 313/506, 511, 512; 340/815.53, 815.69

US PAT NO: 5,553,299 [IMAGE AVAILABLE] L25: 18 of 32
TITLE: Programming/reprogramming a point to point communication
apparatus
US-CL-CURRENT: 340/815.41; 349/1; 364/232.91, DIG.1; 711/103

US PAT NO: 5,523,873 [IMAGE AVAILABLE] L25: 19 of 32
TITLE: LCD heater with flex circuit buss bars
US-CL-CURRENT: 349/139, 149

US PAT NO: 5,521,345 [IMAGE AVAILABLE] L25: 20 of 32
TITLE: **Backlit** membrane **keypad**
US-CL-CURRENT: 200/317, 310

US PAT NO: 5,517,434 [IMAGE AVAILABLE] L25: 21 of 32
TITLE: Data capture system with communicating and recharging
docking apparatus and hand-held data terminal means
cooperable therewith
US-CL-CURRENT: 361/683

US PAT NO: 5,515,303 [IMAGE AVAILABLE] L25: 22 of 32
TITLE: Hand-held computerized data collection terminal with
rechargeable battery pack sensor and battery power
conservation
US-CL-CURRENT: 361/683; 235/375; 320/DIG.12; 705/28; D10/65

US PAT NO: 5,454,037 [IMAGE AVAILABLE] L25: 23 of 32
TITLE: Portable secure-telephone communications module
US-CL-CURRENT: 379/453, 451

US PAT NO: 5,436,745 [IMAGE AVAILABLE] L25: 24 of 32
TITLE: Flex circuit board for liquid crystal display
US-CL-CURRENT: 349/58, 150

US PAT NO: 5,220,501 [IMAGE AVAILABLE] L25: 25 of 32
TITLE: Method and system for remote delivery of retail banking
services
US-CL-CURRENT: 380/24; 379/93.18; 380/29; 705/43; 902/24

US PAT NO: 5,149,923 [IMAGE AVAILABLE] L25: 26 of 32
TITLE: **Backlit** tactile keyboard with improved tactile and

electrical characteristics
US-CL-CURRENT: 200/5A, 314, 512

US PAT NO: 5,138,119 [IMAGE AVAILABLE] L25: 27 of 32
TITLE: Backlit tactile keyboard with improved tactile and
electrical characteristics
US-CL-CURRENT: 200/5A, 314, 512

US PAT NO: 5,081,329 [IMAGE AVAILABLE] L25: 28 of 32
TITLE: Key assembly, switch assembly and method of making same
US-CL-CURRENT: 200/314, 512

US PAT NO: 5,077,832 [IMAGE AVAILABLE] L25: 29 of 32
TITLE: Radio transceiver with optional display
US-CL-CURRENT: 455/566, 90, 154.1, 186.1, 349

US PAT NO: 4,916,441 [IMAGE AVAILABLE] L25: 30 of 32
TITLE: Portable handheld terminal
US-CL-CURRENT: 345/169; 235/380, 382, 462.45; 340/825.3, 825.44; 341/22,
23; 345/173, 211; 364/224.5, 224.6, 228.4, 229, 229.5,
231, 231.1, 231.2, 234, 234.4, 237.2, 237.3, 237.82,
237.85, 238.5, 242.94, 242.95, 268, 269.3, 282.1, 283.3,
DIG.1; 455/566, 575; 708/141; D18/11

US PAT NO: 4,835,546 [IMAGE AVAILABLE] L25: 31 of 32
TITLE: Electronic data recorder apparatus and method
US-CL-CURRENT: 346/33D, 18, 59, 79, 97

US PAT NO: 4,642,627 [IMAGE AVAILABLE] L25: 32 of 32
TITLE: Illuminated compact control surface
US-CL-CURRENT: 345/50; 341/13, 31; 455/90

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(FILE 'USPAT' ENTERED AT 13:02:58 ON 04 AUG 1999)

L1 124756 S COMMUNICATION AND CIRCUIT
L2 4775 S DUTY CYCLE AND L1
L3 3771 S FREQUENCY AND L2
L4 684 S KEYPAD AND LIGHT SOURCE
L5 171 S 345/169/CCLST
L6 91 S 345/170/CCLST
L7 238 S KEYPAD AND BACKLIGHT?
L8 261 S L5 OR L6
L9 2 S L7 AND L8
L10 7 S L4 AND L8
L11 1596 S ILLUMINAT? AND KEYPAD
L12 11 S L8 AND L11
L13 161 S KEYPAD AND MOBILE PHONE
L14 236 S 455/550/CCLST
L15 87 S 455/418/CCLST
L16 312 S L14 OR L15
L17 12 S L13 AND L16
L18 96 S L1 AND L13
L19 7 S L16 AND L18
L20 102 S 455/556/CCLST
L21 168 S 455/566/CCLST
L22 612 S 455/575/CCLST
L23 97 S 455/553/CCLST
L24 82 S 341/21/CCLST
L25 775 S 341/22/CCLST
L26 227 S 341/23/CCLST
L27 141 S 345/102/CCLST
L28 433 S 379/433/CCLST
L29 252 S 379/428/CCLST
L30 4 S SPRING LOADED POGO PIN
L31 0 S POGO PIN AND KEYPAD
L32 96 S L1 AND L13
L33 0 S POGO PIN AND L32
L34 26 S L1 AND POGO PIN
L35 17846 S PIN (3A) CONTACT
L36 1377 S L1 AND L35
L37 4 S KEYPAD AND RADIOPHONE
L38 943 S KEYPAD AND (CELLULAR PHONE OR CELLULAR TELEPHONE)
L39 173670 S ILLUMINAT? OR LIGHT SOURCE
L40 129 S L38 AND L39
L41 1163 S L14 OR L15 OR L20 OR L21 OR L22 OR L23
L42 15 S L40 AND L41

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US PAT NO: 5,898,933 [IMAGE AVAILABLE] L42: 1 of 15
 TITLE: Apparatus and method for generating a control signal
 responsive to a movable antenna
 US-CL-CURRENT: 455/575, 90, 574

US PAT NO: 5,878,353 [IMAGE AVAILABLE] L42: 2 of 15
 TITLE: Radio frequency communication device including a mirrored
 surface
 US-CL-CURRENT: 455/550, 566

US PAT NO: 5,870,683 [IMAGE AVAILABLE] L42: 3 of 15
 TITLE: Mobile station having method and apparatus for displaying
 user-selectable animation sequence
 US-CL-CURRENT: 455/566, 575

US PAT NO: 5,867,772 [IMAGE AVAILABLE] L42: 4 of 15
 TITLE: **Cellular telephone** assembly and method for
 assembling a **cellular telephone**
 US-CL-CURRENT: 455/90, 550, 575

US PAT NO: 5,835,863 [IMAGE AVAILABLE] L42: 5 of 15
 TITLE: Wireless telephone for **cellular telephone** system
 US-CL-CURRENT: 455/567, 566, 575

US PAT NO: 5,815,820 [IMAGE AVAILABLE] L42: 6 of 15
 TITLE: Transmitter having adjustable power levels responsive to
 the position of a movable antenna
 US-CL-CURRENT: 455/575; 343/702; 455/90

US PAT NO: 5,634,080 [IMAGE AVAILABLE] L42: 7 of 15
 TITLE: Hand-held portable computer having an electroluminescent
 flat-panel display with pixel elements at right angles
 to the plane of the display and an excitation direction
 parallel to the plane of the display
 US-CL-CURRENT: 710/73; 345/45, 156; 361/686; 455/575; 709/253;
 710/101

US PAT NO: 5,606,597 [IMAGE AVAILABLE] L42: 8 of 15
 TITLE: User programmable configuration of a telephone
 US-CL-CURRENT: 455/464; 379/355; 455/552, 554, 566, 567

US PAT NO: 5,594,782 [IMAGE AVAILABLE] L42: 9 of 15
 TITLE: Multiple mode personal wireless communications system
 US-CL-CURRENT: 455/417, 426, 433, 444, 510, 553, 566

US PAT NO: 5,566,224 [IMAGE AVAILABLE] L42: 10 of 15
 TITLE: Radio frequency communication device including a mirrored
 surface
 US-CL-CURRENT: 455/566; 359/839; 455/90, 345, 347

US PAT NO: 5,555,550 [IMAGE AVAILABLE] L42: 11 of 15
 TITLE: **Keypad** apparatus with integral display indicators
 US-CL-CURRENT: 455/566; 341/22; 345/168; 364/189; 379/368

US PAT NO: 5,491,740 [IMAGE AVAILABLE] L42: 12 of 15
 TITLE: Automated key actuating **cellular telephone**

programmer
US-CL-CURRENT: 455/51 379/358; 455/418

US PAT NO: 5,247,700 [IMAGE AVAILABLE] L42: 13 of 15
TITLE: Cellular telephone with pager
US-CL-CURRENT: 455/552; 340/825.44; 455/180.2, 228, 456, 566

US PAT NO: 5,175,759 [IMAGE AVAILABLE] L42: 14 of 15
TITLE: Communications device with movable element control
interface
US-CL-CURRENT: 455/569, 566, 574, 575; 704/270

US PAT NO: 5,095,503 [IMAGE AVAILABLE] L42: 15 of 15
TITLE: Cellular telephone controller with synthesized
voice feedback for directory number confirmation and
call status
US-CL-CURRENT: 455/563; 379/88.16, 354; 455/564, 566; 704/258, 270

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US PAT NO: 5,907,815 [IMAGE AVAILABLE] L17: 1 of 12
 TITLE: Portable computer stored removable mobile telephone
 US-CL-CURRENT: 455/557, 550, 556, 575

US PAT NO: 5,862,474 [IMAGE AVAILABLE] L17: 2 of 12
 TITLE: Programmable wireless modem
 US-CL-CURRENT: 455/418; 375/222; 379/93.28; 455/90, 550, 557, 575

US PAT NO: 5,839,067 [IMAGE AVAILABLE] L17: 3 of 12
 TITLE: Corporate communication system
 US-CL-CURRENT: 455/422; 379/201; 455/418, 445, 461, 561

US PAT NO: 5,835,858 [IMAGE AVAILABLE] L17: 4 of 12
 TITLE: Easy activation of a cellular phone
 US-CL-CURRENT: 455/419, 411, 418

US PAT NO: 5,819,175 [IMAGE AVAILABLE] L17: 5 of 12
 TITLE: Method and assembly for assigning a function of an
 electronic device
 US-CL-CURRENT: 455/418, 88, 136.1, 575

US PAT NO: 5,812,954 [IMAGE AVAILABLE] L17: 6 of 12
 TITLE: Mobile telephone power key lock function
 US-CL-CURRENT: 455/550, 567

US PAT NO: 5,809,403 [IMAGE AVAILABLE] L17: 7 of 12
 TITLE: Coaxial cable assembly for a portable phone
 US-CL-CURRENT: 455/90; 379/433, 434; 455/550, 575

US PAT NO: 5,758,295 [IMAGE AVAILABLE] L17: 8 of 12
 TITLE: Uniform man-machine interface for cellular mobile
 telephones
 US-CL-CURRENT: 455/566; 379/396; 455/550

US PAT NO: 5,610,970 [IMAGE AVAILABLE] L17: 9 of 12
 TITLE: Telephone system with scheduled handling of calls
 US-CL-CURRENT: 455/417; 379/83.13, 88.18, 142, 201, 210; 455/31.2,
 418

US PAT NO: 5,577,100 [IMAGE AVAILABLE] L17: 10 of 12
 TITLE: Mobile phone with internal accounting
 US-CL-CURRENT: 455/406, 418

US PAT NO: 5,465,288 [IMAGE AVAILABLE] L17: 11 of 12
 TITLE: Point-of-sale system for programming a cellular telephone
 with its assigned telephone number
 US-CL-CURRENT: 455/418; 379/441; 455/419, 551, 557

US PAT NO: 4,718,080 [IMAGE AVAILABLE] L17: 12 of 12
 TITLE: Microprocessor controlled interface for cellular system
 US-CL-CURRENT: 455/74.1, 550

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US PAT NO: 5,907,815 [IMAGE AVAILABLE] L19: 1 of 7
 TITLE: Portable computer stored removable mobile telephone
 US-CL-CURRENT: 455/557, 550, 556, 575

US PAT NO: 5,862,474 [IMAGE AVAILABLE] L19: 2 of 7
 TITLE: Programmable wireless modem
 US-CL-CURRENT: 455/418; 375/222; 379/93.28; 455/90, 550, 557, 575

US PAT NO: 5,809,403 [IMAGE AVAILABLE] L19: 3 of 7
 TITLE: Coaxial cable assembly for a portable phone
 US-CL-CURRENT: 455/90; 379/433, 434; 455/550, 575

US PAT NO: 5,610,970 [IMAGE AVAILABLE] L19: 4 of 7
 TITLE: Telephone system with scheduled handling of calls
 US-CL-CURRENT: 455/417; 379/88.13, 88.18, 142, 201, 210; 455/31.2, 418

US PAT NO: 5,577,100 [IMAGE AVAILABLE] L19: 5 of 7
 TITLE: Mobile phone with internal accounting
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US PAT NO: 5,465,288 [IMAGE AVAILABLE] L19: 6 of 7
 TITLE: Point-of-sale system for programming a cellular telephone
 with its assigned telephone number
 US-CL-CURRENT: 455/418; 379/441; 455/419, 551, 557

US PAT NO: 4,718,080 [IMAGE AVAILABLE] L19: 7 of 7
 TITLE: Microprocessor controlled interface for cellular system
 US-CL-CURRENT: 455/74.1, 550

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 L2 4775 S DUTY CYCLE AND L1
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 L7 238 S KEYPAD AND BACKLIGHT?
 L8 261 S L5 OR L6
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 L11 1596 S ILLUMINAT? AND KEYPAD
 L12 11 S L8 AND L11
 L13 161 S KEYPAD AND MOBILE PHONE
 L14 236 S 455/550/CCLST
 L15 87 S 455/418/CCLST
 L16 312 S L14 OR L15
 L17 12 S L13 AND L16
 L18 96 S L1 AND L13
 L19 7 S L16 AND L18

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(FILE 'USPAT' ENTERED AT 13:02:58 ON 04 AUG 1999)

L1 124756 S COMMUNICATION AND CIRCUIT
L2 4775 S DUTY CYCLE AND L1
L3 3771 S FREQUENCY AND L2
L4 684 S KEYPAD AND LIGHT SOURCE
L5 171 S 345/169/CCLST
L6 91 S 345/170/CCLST
L7 238 S KEYPAD AND BACKLIGHT?
L8 261 S L5 OR L6
L9 2 S L7 AND L8
L10 7 S L4 AND L8
L11 1596 S ILLUMINAT? AND KEYPAD
L12 11 S L8 AND L11
L13 161 S KEYPAD AND MOBILE PHONE
L14 236 S 455/550/CCLS'
L15 87 S 455/418/CCLS'
L16 312 S L14 OR L15
L17 12 S L13 AND L16
L18 96 S L1 AND L13
L19 7 S L16 AND L18
L20 102 S 455/556/CCLS'
L21 168 S 455/566/CCLS'
L22 612 S 455/575/CCLS'
L23 97 S 455/553/CCLS'
L24 82 S 341/21/CCLST
L25 775 S 341/22/CCLST
L26 227 S 341/23/CCLST
L27 141 S 345/102/CCLST
L28 433 S 379/433/CCLS'
L29 252 S 379/428/CCLS'

SEARCH 09/182626

L30 4 SPRING LOADED POGO PIN
 (SPRING(W) LOADED(W) POGO(W) PIN)

=> display ti,ccls 130 1-4

US PAT NO: 5,453,701 [IMAGE AVAILABLE] L30: 1 of 4
TITLE: Bare die test and burn-in device
US-CL-CURRENT: 324/755, 158.1, 754

US PAT NO: 5,166,605 [IMAGE AVAILABLE] L30: 2 of 4
TITLE: Controlled impedance test fixture for planar electronic
 device
US-CL-CURRENT: 324/754

US PAT NO: 4,754,555 [IMAGE AVAILABLE] L30: 3 of 4
TITLE: Apparatus for inspecting the coplanarity of leaded surface
 mounted electronic components
US-CL-CURRENT: 33/533, 552, 55

US PAT NO: 4,504,783 [IMAGE AVAILABLE] L30: 4 of 4
TITLE: Test fixture for providing electrical access to each I/O
 pin of a VLSI chip having a large number of I/O pins

SEARCH pct/us9824156

(FILE 'USPAT' ENTERED AT 15:38:50 ON 02 AUG 1999)

L1 2319 S PERSONAL DIGITAL ASSISTANT OR PDA
 L2 2 S KEYPAD AND HINGE
 L3 536 S KEYPAD AND HINGE
 L4 4848 S CELLULAR PHONE OR CELLULAR TELEPHONE
 L5 91228 S HANDHELD OR PORTABLE
 L6 217 S L3 AND L5
 L7 18 S L1 AND L6
 L8 333 S PEN-BASED COMPUTER OR PEN COMPUTER
 L9 0 S PIN CONTACT AND L3
 L10 66 S PIN CONTACT AND HINGE
 L11 0 S L8 AND L10
 L12 0 S L1 AND L10
 L13 3 S L5 AND L10

=> display ti,ccls l13 1-3

US PAT NO: 4,210,280 [IMAGE AVAILABLE] L13: 1 of 3
 TITLE: Traction mat
 US-CL-CURRENT: 238/14

US PAT NO: 4,119,813 [IMAGE AVAILABLE] L13: 2 of 3
 TITLE: Cassette tape recorder with detachable coupling to radio
 US-CL-CURRENT: 369/11; 360/137; 439/137; 455/344

US PAT NO: 4,041,250 [IMAGE AVAILABLE] L13: 3 of 3
 TITLE: Coupling device for cassette tape recorder
 US-CL-CURRENT: 369/11; 360/137; 455/344

=> display ti,ccls l7 1-18

US PAT NO: 5,929,419 [IMAGE AVAILABLE] L7: 1 of 18
 TITLE: System and method for preventing authorized movement of
 cordless bar code symbol readers from designated
 scanning environments
 US-CL-CURRENT: 235/462.27

US PAT NO: 5,867,140 [IMAGE AVAILABLE] L7: 2 of 18
 TITLE: Display system and circuit therefor
 US-CL-CURRENT: 345/98, 1, 90, 100, 211, 214

US PAT NO: 5,867,131 [IMAGE AVAILABLE] L7: 3 of 18
 TITLE: Antenna for a mobile computer
 US-CL-CURRENT: 343/797, 702, 729, 795

US PAT NO: 5,844,229 [IMAGE AVAILABLE] L7: 4 of 18
 TITLE: Cordless desktop bar code symbol reader having integrated
 viewing aperture for sighting of bar code symbols to be
 scanned
 US-CL-CURRENT: 235/472.01, 462.01

US PAT NO: 5,827,082 [IMAGE AVAILABLE] L7: 5 of 18
 TITLE: Hinged device
 US-CL-CURRENT: 439/165

US PAT NO: 5,811,005 [IMAGE AVAILABLE] L7: 6 of 18
TITLE: PCMCIA card providing base unit for one-way RF signal reception and acoustic acknowledgment signal generation
US-CL-CURRENT: 235/472.01, 462.01

US PAT NO: 5,808,285 [IMAGE AVAILABLE] L7: 7 of 18
TITLE: **Portable** code symbol reading device with one-way wireless data packet transmission link to base unit employing condition-dependent acoustical signalling for data packet reception acknowledgement
US-CL-CURRENT: 235/472.02, 462.01; 400/103

US PAT NO: 5,799,068 [IMAGE AVAILABLE] L7: 8 of 18
TITLE: Smart phone integration with computer systems
US-CL-CURRENT: 379/93.06; 345/331; 379/357; 710/13, 102

US PAT NO: 5,799,067 [IMAGE AVAILABLE] L7: 9 of 18
TITLE: Smart phone integration with computer systems
US-CL-CURRENT: 379/93.06, 357; 455/422; 710/102

US PAT NO: 5,797,089 [IMAGE AVAILABLE] L7: 10 of 18
TITLE: Personal communications terminal having switches which independently energize a mobile telephone and a **personal digital assistant**
US-CL-CURRENT: 455/403, 553, 556, 557

US PAT NO: 5,708,840 [IMAGE AVAILABLE] L7: 11 of 18
TITLE: Micro **personal digital assistant**
US-CL-CURRENT: 708/105; 341/137; 345/169; 710/101

US PAT NO: 5,689,654 [IMAGE AVAILABLE] L7: 12 of 18
TITLE: Digital assistant system including a host computer with a docking bay for the digital assistant wherein a heat sink is moved into contact with a docked digital assistant for cooling the digital assistant
US-CL-CURRENT: 710/101; 345/173; 361/686; 364/708.1; 455/575; 710/73, 128

US PAT NO: 5,668,570 [IMAGE AVAILABLE] L7: 13 of 18
TITLE: Desktop computer with adjustable flat panel screen
US-CL-CURRENT: 345/173; 248/923; 345/179, 905; 361/681; 364/708.1

US PAT NO: 5,634,080 [IMAGE AVAILABLE] L7: 14 of 18
TITLE: Hand-held **portable** computer having an electroluminescent flat-panel display with pixel elements at right angles to the plane of the display and an excitation direction parallel to the plane of the display
US-CL-CURRENT: 710/73; 345/45, 156; 361/686; 455/575; 709/253; 710/101

US PAT NO: 5,600,800 [IMAGE AVAILABLE] L7: 15 of 18
TITLE: Personal computer system having a docking bay and a hand-held **portable** computer adapted to dock in the docking bay by a full-service parallel bus
US-CL-CURRENT: 710/101

US PAT NO: 5,590,382 [IMAGE AVAILABLE] L7: 16 of 18
TITLE: **Personal digital assistant** module having a multi-portion keyboard with inductive coupling
US-CL-CURRENT: 710/73; 341/32; 710/67

US PAT NO: 5,555,157 [IMAGE AVAILABLE] L7: 17 of 18
TITLE: Enclosure for electronic apparatus having a cover catch member engageable with two different housing catch members

US-CL-CURRENT: 361/687, 312/223.2; 361/679; D14/100

US PAT NO: 5,537,343 [IMAGE AVAILABLE]

L7: 18 of 18

TITLE: Digital assistant system having a host computer with a
docking bay and a moveable heat sink for cooling a
docked module

US-CL-CURRENT: 361/687, 686, 709

US PAT NO: 5,367,293 [IMAGE AVAILABLE] L1: 13 of 25
 TITLE: Keypad including membrane with replaceable key elements
 US-CL-CURRENT: 200/5A, 302.1, 309, 314, 345

US PAT NO: 5,347,117 [IMAGE AVAILABLE] L1: 14 of 25
 TITLE: Operator interface for a photoelectric control unit
 US-CL-CURRENT: 250/221, 222.1

US PAT NO: 5,336,882 [IMAGE AVAILABLE] L1: 15 of 25
 TITLE: System for determining operational stability of a photoelectric control unit having a margin variable gain module
 US-CL-CURRENT: 250/221, 214B, 222.1; 327/514

US PAT NO: 5,324,931 [IMAGE AVAILABLE] L1: 16 of 25
 TITLE: Process for reliably detecting the passage of a target object using a photoelectric control unit employing pseudo-random jitter factor pulses
 US-CL-CURRENT: 250/222.1, 221

US PAT NO: 5,303,163 [IMAGE AVAILABLE] L1: 17 of 25
 TITLE: Configurable vehicle monitoring system
 US-CL-CURRENT: 364/528.09; 340/439, 441; 701/29, 32, 35

US PAT NO: 5,281,810 [IMAGE AVAILABLE] L1: 18 of 25
 TITLE: Photoelectric control unit adapted for determining its own operating margin having dual variable-gain amplifier
 US-CL-CURRENT: 250/222.1, 214A; 340/556

US PAT NO: 5,226,105 [IMAGE AVAILABLE] L1: 19 of 25
 TITLE: Fiber optic backlighting panel and dot process for making same
 US-CL-CURRENT: 385/147; 358/901.1; 362/26, 31, 330; 385/120, 901

US PAT NO: 5,175,759 [IMAGE AVAILABLE] L1: 20 of 25
 TITLE: Communications device with movable element control interface
 US-CL-CURRENT: 455/569, 566, 574, 575; 704/270

US PAT NO: 5,153,590 [IMAGE AVAILABLE] L1: 21 of 25
 TITLE: Keypad apparatus
 US-CL-CURRENT: 341/31; 200/317; 341/22; 362/31

US PAT NO: 5,148,471 [IMAGE AVAILABLE] L1: 22 of 25
 TITLE: Communications device with voice recognition and movable element control interface
 US-CL-CURRENT: 455/563; 379/88.02

US PAT NO: 5,077,832 [IMAGE AVAILABLE] L1: 23 of 25
 TITLE: Radio transceiver with optional display
 US-CL-CURRENT: 455/566, 90, 154.1, 186.1, 349

US PAT NO: 4,916,262 [IMAGE AVAILABLE] L1: 24 of 25
 TITLE: Low-profile, rubber keypad
 US-CL-CURRENT: 200/5A, 306, 514, 515, 517

US PAT NO: 4,642,627 [IMAGE AVAILABLE] L1: 25 of 25
 TITLE: Illuminated compact control surface
 US-CL-CURRENT: 345/50; 341/13, 31; 455/90

SEARCH pct/us9824156

US PAT NO: 5,929,419 [IMAGE AVAILABLE] L13: 1 of 18
 TITLE: System and method for preventing authorized movement of
 cordless bar code symbol readers from designated
 scanning environments
 US-CL-CURRENT: 235/462.27

US PAT NO: 5,867,140 [IMAGE AVAILABLE] L13: 2 of 18
 TITLE: Display system and circuit therefor
 US-CL-CURRENT: 345/98, 1, 90, 100, 211, 214

US PAT NO: 5,867,131 [IMAGE AVAILABLE] L13: 3 of 18
 TITLE: Antenna for a mobile computer
 US-CL-CURRENT: 343/797, 702, 729, 795

US PAT NO: 5,844,229 [IMAGE AVAILABLE] L13: 4 of 18
 TITLE: Cordless desktop bar code symbol reader having integrated
 viewing aperture for sighting of bar code symbols to be
 scanned
 US-CL-CURRENT: 235/472.01, 462.01

US PAT NO: 5,827,082 [IMAGE AVAILABLE] L13: 5 of 18
 TITLE: Hinged device
 US-CL-CURRENT: 439/165

US PAT NO: 5,811,786 [IMAGE AVAILABLE] L13: 6 of 18
 TITLE: PCMCIA card providing base unit for one-way RF signal
 reception and acoustic acknowledgment signal generation
 US-CL-CURRENT: 235/472.01, 462.01

US PAT NO: 5,808,285 [IMAGE AVAILABLE] L13: 7 of 18
 TITLE: Portable code symbol reading device with one-way wireless
 data packet transmission link to base unit employing
 condition-dependent acoustical signalling for data
 packet reception acknowledgement
 US-CL-CURRENT: 235/472.02, 462.01; 400/103

US PAT NO: 5,799,068 [IMAGE AVAILABLE] L13: 8 of 18
 TITLE: Smart phone integration with computer systems
 US-CL-CURRENT: 379/93.06; 345/331; 379/357; 710/13, 102

US PAT NO: 5,799,067 [IMAGE AVAILABLE] L13: 9 of 18
 TITLE: Smart phone integration with computer systems
 US-CL-CURRENT: 379/93.06, 357; 455/422; 710/102

US PAT NO: 5,797,089 [IMAGE AVAILABLE] L13: 10 of 18
 TITLE: Personal communications terminal having switches which
 independently energize a mobile telephone and a
personal digital assistant
 US-CL-CURRENT: 455/403, 553, 556, 557

US PAT NO: 5,708,840 [IMAGE AVAILABLE] L13: 11 of 18
 TITLE: **Micro personal digital assistant**
 US-CL-CURRENT: 708/105; 341/137; 345/169; 710/101

US PAT NO: 5,689,654 [IMAGE AVAILABLE] L13: 12 of 18

TITLE: Digital assistant system including a host computer with a docking bay for the digital assistant wherein a heat sink is moved into contact with a docked digital assistant for cooling the digital assistant
US-CL-CURRENT: 710/101; 345/173; 361/686; 364/708.1; 455/575; 710/73, 128

US PAT NO: 5,668,570 [IMAGE AVAILABLE] L13: 13 of 18
TITLE: Desktop computer with adjustable flat panel screen
US-CL-CURRENT: 345/173; 248/923; 345/179, 905; 361/681; 364/708.1

US PAT NO: 5,634,080 [IMAGE AVAILABLE] L13: 14 of 18
TITLE: Hand-held portable computer having an electroluminescent flat-panel display with pixel elements at right angles to the plane of the display and an excitation direction parallel to the plane of the display
US-CL-CURRENT: 710/73; 345/45, 156; 361/686; 455/575; 709/253; 710/101

US PAT NO: 5,600,800 [IMAGE AVAILABLE] L13: 15 of 18
TITLE: Personal computer system having a docking bay and a hand-held portable computer adapted to dock in the docking bay by a full-service parallel bus
US-CL-CURRENT: 710/101

US PAT NO: 5,590,382 [IMAGE AVAILABLE] L13: 16 of 18
TITLE: **Personal digital assistant** module having a multi-portion keyboard with inductive coupling
US-CL-CURRENT: 710/73; 341/32; 710/67

US PAT NO: 5,555,157 [IMAGE AVAILABLE] L13: 17 of 18
TITLE: Enclosure for electronic apparatus having a cover catch member engageable with two different housing catch members
US-CL-CURRENT: 361/683; 312/223.2; 361/679; D14/100

US PAT NO: 5,537,343 [IMAGE AVAILABLE] L13: 18 of 18
TITLE: Digital assistant system having a host computer with a docking bay and a moveable heat sink for cooling a docked module
US-CL-CURRENT: 361/687, 686, 709

SEARCH pct/us9824156

(FILE 'USPAT' ENTERED AT 14:37:12 ON 30 JUL 1999)

L1	2319 S PERSONAL DIGITAL ASSISTANT OR PDA
L2	4848 S CELLULAR PHONE OR CELLULAR TELEPHONE
L3	170 S L1 AND L2
L4	0 S BACKLIT? AND L3
L5	1 S BACKLIGHT? AND L3
L6	1 S L5
L7	131 S KEYPAD AND CONTROLLER AND BACKLIGHT?
L8	2319 S PDA OR PERSONAL DIGITAL ASSISTANT
L9	4848 S CELLULAR PHONE OR CELLULAR TELEPHONE
L10	170 S L8 AND L9
L11	0 S FLIP CIRCUIT AND KEYPAD
L12	164 S KEYPAD AND L8
L13	18 S HINGE AND L12

SEARCH pct/us9824156

US PAT NO: 5,910,799 [IMAGE AVAILABLE] L14: 1 of 15
 TITLE: Location motion sensitive user interface
 US-CL-CURRENT: 345/333, 329

US PAT NO: 5,859,628 [IMAGE AVAILABLE] L14: 2 of 15
 TITLE: Apparatus and method for a personal onboard information system
 US-CL-CURRENT: 345/173; 340/990; 345/130; 361/686; 364/708.1

US PAT NO: 5,841,431 [IMAGE AVAILABLE] L14: 3 of 15
 TITLE: Application of split- and dual-screen LCD panel design in cellular phones
 US-CL-CURRENT: 345/211, 103; 364/708.1; 708/109; 713/321

US PAT NO: 5,835,732 [IMAGE AVAILABLE] L14: 4 of 15
 TITLE: Miniature digital assistant having enhanced host communication
 US-CL-CURRENT: 710/101; 345/173; 361/686; 364/708.1; 455/556; 709/253; 710/73, 128

US PAT NO: 5,825,353 [IMAGE AVAILABLE] L14: 5 of 15
 TITLE: Control of miniature **personal digital assistant** using menu and thumbwheel
 US-CL-CURRENT: 345/184, 125, 352; 368/10

US PAT NO: 5,799,068 [IMAGE AVAILABLE] L14: 6 of 15
 TITLE: Smart phone integration with computer systems
 US-CL-CURRENT: 379/93.06; 345/331; 379/357; 710/13, 102

US PAT NO: 5,796,394 [IMAGE AVAILABLE] L14: 7 of 15
 TITLE: User interface and rule processing for a personal communications routing system
 US-CL-CURRENT: 345/329, 340; 709/206

US PAT NO: 5,708,840 [IMAGE AVAILABLE] L14: 8 of 15
 TITLE: Micro **personal digital assistant**
 US-CL-CURRENT: 708/105; 341/137; 345/169; 710/101

US PAT NO: 5,689,654 [IMAGE AVAILABLE] L14: 9 of 15
 TITLE: Digital assistant system including a host computer with a docking bay for the digital assistant wherein a heat sink is moved into contact with a docked digital assistant for cooling the digital assistant
 US-CL-CURRENT: 710/101; 345/173; 361/686; 364/708.1; 455/575; 710/73, 128

US PAT NO: 5,657,258 [IMAGE AVAILABLE] L14: 10 of 15
 TITLE: Mobile pen computer having an integrated palm rest
 US-CL-CURRENT: 361/681; 345/173; D10/65

US PAT NO: 5,634,080 [IMAGE AVAILABLE] L14: 11 of 15
 TITLE: Hand-held portable computer having an electroluminescent flat-panel display with pixel elements at right angles to the plane of the display and an excitation direction parallel to the plane of the display
 US-CL-CURRENT: 710/73; 345/45, 156; 361/686; 455/575; 709/253;

US PAT NO: 5,628,031 [IMAGE AVAILABLE] L14: 12 of 15
TITLE: **Personal digital assistant** module implemented
as a low-profile printed circuit assembly having a rigid
substrate wherein IC devices are mounted within openings
wholly between opposite plane surfaces of the rigid
substrate
US-CL-CURRENT: 710/73; **345/173**; 361/749; 455/556

US PAT NO: 5,579,489 [IMAGE AVAILABLE] L14: 13 of 15
TITLE: Hand-held portable computer having capability for external
expansion of an internal bus
US-CL-CURRENT: 710/101; **345/173**; 361/686; 364/708.1; 455/575; 710/73,
128

US PAT NO: 5,572,573 [IMAGE AVAILABLE] L14: 14 of 15
TITLE: Removable user interface for use with interactive
electronic devices
US-CL-CURRENT: 455/556; 341/23; **345/173**; 455/558; 708/140

US PAT NO: 5,522,089 [IMAGE AVAILABLE] L14: 15 of 15
TITLE: **Personal digital assistant** module adapted for
initiating telephone communications through DTMF dialing
US-CL-CURRENT: 710/73; **345/173**, **352**; 364/222.3, 231.2, 237.2,
237.5, 286, 286.2, DIG.1; 379/93.13, 93.19, 93.23, 357